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23 November 1954

MEETING BETWEEN [] AND CONTRACTING AGENCY HELD 16 NOVEMBER 1954^{25X1}
Contract No. RD-71 (H-2026)

Those present at the meeting were:

Contracting Agency

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The main topic of discussion at the meeting concerned the electrical and mechanical design of the tuner. [] presented a detailed sketch of the tuner and after a review by [] the following points were agreed upon by all parties present.

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1. [] stated that dial markings on the vernier scale need not be made more often than 1 kc. 25X1
2. [] agreed to consider numerical marking at every 100 kc. throughout the frequency range in lieu of markings at every 50 kc. from 3 to 6 Mc. He will advise Philco at a later date whether such action is justified. 25X1
3. [] requested that [] investigate the feasibility of locating the vernier dial closer to the main dial. He was informed that this will be considered. 25X1
4. [] agreed to investigate the possibility of incorporating a Veeder root counter in place of the main scale. 25X1
5. [] stated that the earphones and the antenna will be external equipment that will not be packaged in the receiver, but rather in a waterproof bag. The antenna shall consist approximately of 15 feet of wire. 25X1
6. [] agreed that the coil can could be soldered in the tuner bracket assembly, provided the coils could be removed in the event replacement was required. 25X1

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Page 1.

CONFIDENTIAL

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The pros and cons of one band versus two band operation were presented to [] and discussed in detail. It was agreed that the single band presented many electrical advantages if the range of inductance variation could be obtained. The incorporation of band-switching would require the addition of an oscillator coil plus numerous other electrical components. The problems of shielding, dielectric losses, and accuracy would be greatly accentuated with the use of band-switching.

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From a mechanical standpoint the accuracy requirements of a single band would be more difficult to achieve. However, a space saving would result due to the fewer electrical components. Also of significance is the fact that a mask would not be needed for single band operation. This mask would be required to cover the markings of the band not in use for a two band tuner.

[] confirmed the fact that the operator may have to locate a frequency close to his initial setting rapidly. Therefore he believed that from an operational standpoint the single band tuner would be more desirable, since with band-switching the operator would be forced to go from one end of the band to the other for some applications.

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A discussion of basic packaging philosophy ensued. [] expressed the belief that it would be desirable to package the battery in a separate compartment of the receiver. This would enable rapid access to the battery without the possible damage of any other portion of the receiver, since the operator will not be required to perform any servicing other than battery replacement.

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[] in response to questions forwarded by [] discussed the requirements of the B.F.O. It was agreed that provisions for varying the B.F.O. at least ± 3 kc. should be incorporated. The i.f. zero beat frequency will be marked to enable proper over-all tuning.

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[] delivered a set of the 4000 ohm earphones and stated that the remaining nine for the prototypes would be delivered in the future. He advised against any change in the jack connections. The ten 400 ohm earphones were returned to Mr. Smith.

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[] also delivered two miniature mechanical filters which he believes are a production item manufactured by []. He was not familiar with the over-all specifications but felt that it may be acceptable for the requirement visualized. [] stated that Collins would be contacted relative to this matter.

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[] reviewed the present status of development and 25X1
conducted a partial review of the first bi-monthly progress report.

[] believed that he would visit [] again about the 25X1
middle of December and expressed the desire to witness transistor
manufacturing processes. [] agreed to submit this request 25X1
to those people having cognizance over such matters. [] 25X1
would be notified of the decisions reached via [] 25X1

[]

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Project Engineer

copies:

All present

[]
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Page 3.